

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

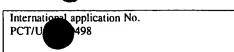
Applicant's or agent's file reference 4239-64830	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)			
International application No.	International filing date (day/mo	nth/year)	Priority date (day/month/year)		
PCT/US03/20498	27 June 2003 (27.06.2003)		28 June 2002 (28.06.2002)		
International Patent Classification (IPC)	or national classification and IPC				
IPC(7): C12N 9/24, 15/10, 15/55, 15/63	; C07H 21/04 and US C1.: 435/2	52.3, 252.33, 32	0.1, 325, 350, 351, 352		
Applicant					
THE GOVERNMENT OF THE UNITE DEPARTMENT OF	D STATES OF AMERICA AS R	EPRESENTED 1	BY THE SECRETARY OF THE		
DEFACIMENT OF					
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 					
2. This REPORT consists of a total of sheets, including this cover sheet.					
This report is also acc	companied by ANNEXES, i.e.	sheets of the	description, claims and/or drawings		
			heets containing rectifications made nistrative Instructions under the PCT).		
before ans Additionty	(see Rule 70.10 and Section of	or the Athin	instrative instructions under the PC1).		
These annexes consist of a	total of sheets.				
3. This report contains indica	tions relating to the following	items:	,		
I Basis of the repo	ort				
II Priority					
III Non-establishme	III Non-establishment of report with regard to novelty, inventive step and industrial applicability				
IV Lack of unity of		•			
applicability; citations and explanations supporting such statement					
VI Certain documen	VI Certain documents cited				
VII Certain defects i	VII Certain defects in the international application				
VIII Certain observat					
commission and morning approaches.					
Date of submission of the demand	Date	of completion	of this report		
16 December 2003 (16.12.2003)		ptember 2004 (2	9.09.2004)		
Name and mailing address of the IPEA/US Mail Stop PCT, Attn: IPEA/US		rized officer	Sulcer K		
Commissioner for Patents P.O. Box 1450	7/#	nes			
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230 Totephone No. (571) 272-1600					
Form PCT/IPEA/409 (cover sheet)(July 19	998)				

INTERNATIONAL I	IMINARY EXAMINATION REPOR

International application No.	
PCT/U 498	

l.	1. Basis of the report				
1.	1. With regard to the elements of the international application:*				
	the international application as originally filed.				
	the description:				
	pages 1-57 as originally filed				
	pages NONE , filed with the demand pages NONE , filed with the letter of				
		·			
	the claims:				
	pages <u>58-61</u> , as originally filed pages <u>NONE</u> , as amended (together with any statement) un	nder Article 19			
	pages NONE, filed with the demand				
	pages NONE , filed with the letter of	·			
	the drawings:				
	pages 1-6 , as originally filed	•			
	pages NONE , filed with the demand pages NONE , filed with the letter of				
	the sequence listing part of the description:	•			
	pages 1-9, as originally filed	·			
	pages NONE , filed with the demand				
	pages NONE, filed with the letter of				
	2. With regard to the language, all the elements marked above were available				
	language in which the international application was filed, unless otherwise These elements were available or furnished to this Authority in the following				
	the language of a translation furnished for the purposes of internation				
	the language of publication of the international application (under Rul	` ' ''			
	the language of the translation furnished for the purposes of internation	' ''			
	55.2 and/or 55.3).	mai preminiary examination under kuies			
	3. With regard to any nucleotide and/or amino acid sequence disclosed in t				
	international preliminary examination was carried out on the basis of the se	equence listing:			
	contained in the international application in printed form.				
	filed together with the international application in computer readable	form.			
	furnished subsequently to this Authority in written form.	·			
	furnished subsequently to this Authority in computer readable form.				
	The statement that the subsequently furnished written sequence listing international application as filed has been furnished.	g does not go beyond the disclosure in the			
	The statement that the information recorded in computer readable for has been furnished.	m is identical to the written sequence listing			
4.	The amendments have resulted in the cancellation of:				
	the description, pages NONE				
	the claims, Nos. NONE				
	the drawings, sheets/fig NONE	•			
5.	This report has been established as if (some of) the amendments had not been beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70)				
this	* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17). ** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.				





V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. STATEMENT				
Novelty (N)	Claims 1-35	YES		
	Claims NONE	NO		
Inventive Step (IS)	Claims 1-35	YES		
·	Claims NONE	NO		
Industrial Applicability (IA)	Claims 1-35	YES		
	Claims NONE	NO		
Claims 1-35 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the claimed invention. Claims 1-35 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.				
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